09/898,507

Amendments to the Claims

Please amend Claims 1, 14, 15, and 16. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Currently Amended) A method of generating an emergent model on a computer network, comprising the steps of:

generating data objects and/or function objects;

publishing references to the data objects and/or the function objects;

subscribing to the data objects and/or the function[[s]] objects by

creating relationships between the data objects and/or the function objects

through referencing the data objects and/or the function objects within the

function objects, thereby linking the data objects and/or the function objects,

wherein networks of linked data objects and/or function objects emerge;

sending messages to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

solving the functions within the function objects when the messages are received;

storing the data objects and/or the function objects in a distributed manner across multiple computing devices on a computer network; and

wherein the emergent networks of linked data objects and/or function objects are independently published to, and subscribed to, in a manner free of a globally predefined network of data objects and/or function objects, thereby generating the emergent model.

2. (Original) The method of Claim 1 wherein at least a part of the configuration of the networks of linked data objects and/or function objects is predefined and used

to determine which data objects and/or function objects are generated on which of the computing devices in the computer network.

- 3. (Original) The method of Claim 1 wherein a user interface is defined that displays the data objects and/or function objects on a computing device on the computer network using a client process that communicates with a server process wherein the data objects and/or function objects can be viewed on any computing device connected to the computer network.
- 4. (Original) The method of Claim 1 wherein the data objects and/or function objects are stored in logical groups.
- 5. (Original) The method of Claim 4 wherein the logical groups are defined by geography, business organization or site.
- 6. (Original) The method of Claim 1 wherein the references to the data objects and/or function objects are published using electronic media, print media or human conversation.
- 7. (Original) The method of Claim 6 wherein the electronic media is indexed and searchable.
- 8. (Original) The method of Claim 1 wherein the step of generating the data objects and/or function objects provides an interface mapping for data objects and/or function objects stored in application programs, databases or computer code libraries.
- 9. (Original) The method of Claim 1 wherein the function objects are implemented by computer code that is complied, dynamically linked and evaluated at runtime.

- 10. (Original) The method of Claim 1 wherein the function objects are implemented by computer code that is interpreted and evaluated at runtime.
- 11. (Original) The method of Claim 1 wherein the sending or receiving of messages can be enabled or disabled based on predefined criteria.
- 12. (Original) The method of Claim 11 wherein the criteria is based upon message source, message destination or message contents.
- 13. (Original) The method of Claim 1 wherein the relationships between the data objects and/or function objects are created without using a single coordinating computing device, or are created using multiple coordinating computing devices on the computer network.
- 14. (Currently Amended) An apparatus for generating an emergent model on a computer network, comprising:

data objects and/or function objects;

references to the data objects and/or the function objects, the references being published;

subscriptions to the data objects and/or the function[[s]] <u>objects</u> generated by creating relationships between the data objects and/or the function objects through referencing the data objects and/or the function objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge;

messages sent to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

a solver unit component solving the functions within the function objects when the messages are received;

a storage unit component storing the data objects and/or the function objects in a distributed manner across multiple computing devices on a computer network; and

wherein the emergent networks of linked data objects and/or function objects are independently published to, and subscribed to, in a manner free of a globally predefined network of data objects and/or function objects, thereby generating the emergent model.

15. (Currently Amended) An apparatus for generating an emergent model on a computer network, comprising:

a means for generating data objects and/or function objects;

a means for publishing references to the data objects and/or the function objects;

a means for subscribing to the data objects and/or the function[[s]] objects by creating relationships between the data objects and/or the function objects through referencing the data objects and/or the function objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge;

a means for sending messages to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

a means for solving the functions within the function objects when the messages are received;

a means for storing the data objects and/or the function objects in a distributed manner across multiple computing devices on a computer network; and

wherein the emergent networks of linked data objects and/or function objects are independently published to, and subscribed to, in a manner free of a globally predefined network of data objects and/or function objects, thereby generating the emergent model.

16. (Currently Amended) A computer program product comprising:

a computer usable medium for generating an emergent model on a computer network;

a set of computer program instructions embodied on the computer usable medium, including instructions to:

generate data objects and/or function objects;

publish references to the data objects and/or the function objects; subscribe to the data objects and/or the function[[s]] objects by creating relationships between the data objects and/or the function objects through referencing the data objects and/or the function objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge;

send messages to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

solve the functions within the function objects when the messages are received;

store the data objects and/or the function objects in a distributed manner across multiple computing devices on a computer network; and

wherein the emergent networks of linked data objects and/or function objects are independently published to, and subscribed to, in a manner free of a globally predefined network of data objects and/or function objects, thereby generating the emergent model.